Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Dredging

Load Number
1223

Tidal Stage
Flood

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
5-10 kts

Seas:
0-1'

Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.8	7:28:23	7389404.46	953577.19	3.1	
DR-2	18.9	7:32:48	7389910.82	953678.72	7.5	12.0
DR-2R1	17.4	7:32:52	7389919.25	953678.38	7.0	12.0
DR-4	20.7	7:34:21	7390536.64	954024.93	17.0	
DR-4R1	20.4	7:34:25	7390536.64	954024.93	13.4	
DR-3	20.3	7:36:29	7389078.29	953760.50	3.1	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of plume on starboard side.	
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Disposal Load Number
1223
Tidal Stage
Flood
Dredge State:
Split Hull
Weather:
Clear
Wind:
10-15 kts
Seas:
0-1'
Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DSP-1	20.4	8:21:21	7378958.28	947534.84	3.0	
DSP-2	17.7	8:26:30	7379559.55	947680.97	6.8	12.0
DSP-2R1	18.1	8:26:34	7379559.55	947680.97	5.7	12.0
DSP-4	20.3	8:27:45	7380016.19	947905.93	3.0	
DSP-3	19.4	8:29:32	7378381.73	947059.24	20.5	
DSP-3R1	19.0	8:29:36	7378381.73	947059.24	15.4	

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 taken in the plume.	
DSP-3 exceeded 10% over background, taken out of the plume,	Re-test DSP-3R1 was taken.
on port side.	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Dredging

Load Number
1224

Tidal Stage
Flood

Dredge State:
Overflow through skimmers only

Weather:
Clear

Wind:
10-15 kts

Seas:
1-3'

Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.6	9:04:17	7388377.22	953009.75	3.7	
DR-2	21.2	9:06:41	7387556.73	952653.11	14.2	12.0
DR-2R1	21.0	9:06:44	7387556.49	952647.04	13.8	12.0
DR-4	20.2	9:08:25	7386815.04	952579.28	17.8	
DR-4R1	20.1	9:08:28	7386815.28	952585.35	14.6	
DR-3	20.0	9:12:03	7388133.64	953147.20	18.7	
DR-3R1	19.7	9:12:06	7388129.67	953153.44	14.8	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Disposal
Load Number
1224
Tidal Stage
Ebb
Dredge State:
Split Hull
Weather:
Clear
Wind:
10-15 kts
Seas:
1-3'
Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DSP-1	20.3	9:48:03	7379500.96	947798.91	3.0	
DSP-2	19.7	9:51:55	7379520.02	947852.89	18.6	12.0
DSP-2R1	19.3	9:51:59	7379511.59	947853.23	14.7	12.0
DSP-3	19.7	9:53:05	7378854.17	947466.04	3.1	
DSP-4	20.3	9:55:01	7379254.92	947875.73	17.3	
DSP-4R1	20.2	9:55:05	7379250.71	947875.90	13.0	

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 taken out of the plume on port side.	
	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Dredging

Load Number
1225

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Cloudy

Wind:
10-15 kts

Seas:
1-3'

Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.8	10:37:03	7387970.92	952983.35	3.3	
DR-2	19.0	10:38:38	7387470.01	952595.73	12.6	12.1
DR-2R1	18.7	10:38:44	7387470.01	952595.73	11.8	12.0
DR-4	20.9	10:40:35	7386678.90	952341.38	13.1	
DR-4R1	20.8	10:40:38	7386670.23	952335.64	12.7	
DR-3	19.8	10:44:17	7387985.89	953147.00	17.4	
DR-3R1	19.8	10:44:21	7387981.43	953141.10	13.9	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on starboard side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.
Tests taken out if preferred order to ensure all tests were completed.	

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Dredging

Load Number
1226

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Cloudy

Wind:
10-15 kts

Seas:
1-3'

Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	21.1	11:45:43	7387046.84	952040.78	3.5	
DR-2	19.0	11:49:12	7386422.50	951840.61	9.8	11.8
DR-2R1	18.7	11:49:16	7386418.29	951840.78	9.3	12.0
DR-4	20.2	11:50:48	7385831.48	951523.55	20.9	
DR-4R1	20.6	11:50:52	7385822.81	951517.81	16.0	
DR-3	20.1	11:52:34	7386998.39	951884.55	17.2	
DR-3R1	20.5	11:52:38	7386994.18	951884.72	13.7	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on starboard side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 19+00 to 20+10*

Date: 11/10/2005

Dredging

Load Number
1227

Tidal Stage
Ebb

Dredge State:
Overflow through skimmers only

Weather:
Rain

Wind:
10-15 kts

Seas:
1-3'

Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.0	13:39:36	7383000.89	949471.16	3.9	
DR-3	20.8	13:41:25	7382265.64	949561.48	5.1	
DR-3R1	20.8	13:41:29	7382257.21	949561.82	5.2	
DR-2	19.1	14:02:11	7381290.49	948724.62	21.2	12.0
DR-2R1	18.7	14:02:16	7381281.82	948718.89	21.8	11.9
DR-4	19.8	14:03:42	7380594.64	948430.17	19.5	
DR-4R1	20.1	14:03:47	7380594.64	948430.17	15.6	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on starboard side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.
Dredge turned after samples DR-1 and DR-3. Testing continued after dredge turned and resumed dredging.	

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - *RM 20+10 to 21+20*

Date: 11/10/2005

Dredging

Load Number
1228

Tidal Stage
Flood

Dredge State:
Overflow through skimmers only

Weather:
Overcast

Wind:
10-15 kts

Seas:
1-3'

Disposal location
Columbia River RM 17.5 & 18.8

Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
DR-1	20.0	15:47:42	7390249.73	954346.58	5.4	
DR-3	20.6	15:50:59	7389302.27	953873.25	21.7	11.6
DR-3R1	20.8	15:51:04	7389302.03	953867.18	16.4	11.7
DR-2	20.2	15:52:51	7389582.92	953606.59	13.1	
DR-2R1	20.5	15:52:55	7389582.92	953606.59	10.2	
DR-4	21.4	15:56:40	7388850.02	953222.09	29.2	
DR-4R1	21.3	15:56:44	7388845.56	953216.18	22.9	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume,	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		